

Listing of Claims

This listing of the claims will replace all prior versions, and listings, of claims in the application. Deleted material is shown in ~~strikethrough~~; or shown in ~~[[double brackets]]~~ to show the deletion of five or fewer characters. Inserted material is underlined, to show the changes made.

1. (Currently Amended) A magnetic material detection device comprising:
wherein a magnet displaceable in the direction of magnetic
poles; and
detecting means with an operating point for detecting
displacement of the magnet by the action that isodynamic lines of the
magnet cross the operating point, ~~are set such that the boundary of~~
~~north and south poles of said magnet crosses the operating point of~~
said detection means after displacement, and
wherein the magnetic material detection device detects that a
magnetic material located outside the magnetic material detection
device body is located at a given position where a predetermined
distance is far within a predetermined distance from said magnetic
material detection device body, by detecting the displacement of the
magnet.

2. (Currently Amended) A magnetic material detection device according to
claim 1 comprising returning means for returning the magnet to the given
position where before the magnet is not displaced ~~displacement if the magnet~~
~~material when it is initially located at the given position far from the~~
~~predetermined distance, and then it after the magnetic material is moved to~~
~~located a position which is far from the given position to the predetermined~~
distance.

3. (Currently Amended) A magnetic material detection device according to claim 1 comprising an elastic body for returning the magnet to the given position, whose one end is connected to the magnet side and whose other end is connected to the magnetic material detection device body.

5

4. (Currently Amended) A magnetic material detection device according to claim 1 comprising wherein a supporting member for supporting the magnet and second magnet which is different from said magnet, whose one end is connected to the magnet ~~[[side]]~~ and whose other end is connected to ~~[[the]]~~ second magnet ~~which is different from said magnet~~,
10 wherein ~~such that~~ the second magnet locates near a path of the magnetic material.

5. (Original) A magnetic material detection device according to claim 1
15 wherein the configuration of the magnet is any one of a cube, a rectangular solid, a cylinder or a pipe.

6. (Currently Amended) A mobile object detection system comprising the magnetic material detection device according to claim 1 and the ~~[[an]]~~ mobile
20 object comprising the magnetic material.

25

30